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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Invention: Hotspot Spray Cooling )  
Serial No.: 10/786,452 )  
Filed: 02/24/2004 )  
Inventor: Tilton et al. )  
Examiner: Unknown )  
Group Art Unit: 2835 )  
Agent / Attorney: Paul A. Knight )  
Docket: ISR-172 )

**INFORMATION DISCLOSURE STATEMENT**

Honorable Commissioner of Patents and Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sirs:

With regard to the above identified application, pursuant to 37 C.F.R. §§ 1.56, the documents listed on the enclosed Form PTO/SB/08A are brought to the attention of the Examiner. No representation is made that these documents are analogous art or material to the patentability of the invention. In accordance with 37 C.F.R. § 1.104, no representation is made that a reference is "prior art" within the meaning of 35 U.S.C. §§ 102 and 103. Moreover, no representation is made that the attached documents have been thoroughly reviewed or that any relevance of any portion of a document is intended.

The disclosure statement should not be construed as a representation that a search has been made or that other material information as defined by 37 C.F.R. § 1.56(a) exists. It is believed that this disclosure complies with the requirements of 37 C.F.R §§ 1.56, 1.97 and 1.98, and the Manual of Patent Examination Procedures § 609. If for some reason the Examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

Applicant reserves the right to present to the USPTO the relevant facts and law to support the listed documents are not "prior art" (e.g. pursuant to 37 C.F.R § 1.131 or otherwise), that the listed documents are not "material" to the patentability of the present invention and that the present invention is patentable over the listed documents.

A copy of each document is enclosed. Some of the documents may have markings; no significance is meant to be attached to the markings.

Consideration of the documents is respectfully requested. Pursuant to the provisions of MPEP 609, it is requested that the Examiner return a copy of the attached Form PTO/SB/08A, marked as being considered and initialed by the Examiner, to the undersigned with the next official communication.

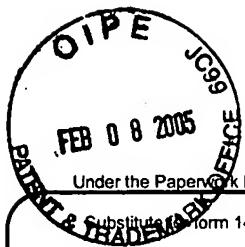
Respectfully submitted,

Paul A. Knight

Paul A. Knight (Reg. No. 53,144)

02/08/2005

Date



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Substitute for Form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

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of 3

## Complete if Known

Application Number	10/786,452
Filing Date	02-24-2004
First Named Inventor	Tilton
Art Unit	2835
Examiner Name	

Attorney Docket Number ISR-172

## U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
A	US-	6,667,548 B2	12-23-2003	O'Connor et al.	
B	US-	6,650,542 B1	11-18-2003	Chrysler et al.	
C	US-	6,604,370 B2	08-12-2003	Bash et al.	
D	US-	4,352,392	10-05-1982	Eastmam	
E	US-	6,580,610 B2	06-17-2003	Morris et al.	
F	US-	6,205,799 B1	03-27-2001	Patel et al.	
G	US-	5,718,117	02-17-1998	McDunn et al.	
H	US-	6,612,120 B2	09-02-2003	Patel et al.	
I	US-	5,675,472	10-07-1997	McDunn et al.	
J	US-	5,924,482	06-20-1999	Edwards et al.	
K	US-	5,768,103	06-16-1998	Kobrinetz et al.	
L	US-	6,571,569 B1	06-03-2003	Rini et al.	
M	US-	5,247,426	09-21-1993	Hamburgen et al.	
N	US-	6,550,263 B2	04-22-2003	Patel et al.	
O	US-	6,349,554 B2	02-26-2002	Patel et al.	
P	US-	5,959,351	09-28-1999	Sasaki et al.	
Q	US-	6,108,201	08-22-2000	Tilton et al.	
R	US-	5,183,104	02-02-1993	Novotny	
S	US-	5,220,804	06-22-1093	Tilton et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet

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of

3

Application Number	10/786,452
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First Named Inventor	Tilton
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Number-Kind Code <sup>2</sup> (if known)					
T	US-	5,719,444	02-17-1998	Tilton et al.	
U	US-	6,678,168 B2	01-13-2004	Kenny, Jr. et al.	
V	US-	5,263,536	11-23-1993	Hulburd et al.	
W	US-	5,901,037	05-04-1999	Hamilton et al.	
X	US-	6,606,251 B1	08-12-2003	Kenny, Jr. et al.	
Y	US-	4,450,472	05-22-1984	Tuckerman et al.	
Z	US-	4,567,505	01-28-1996	Pease et al.	
	US-				

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Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)						

Examiner Signature	Date Considered
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Substitute for form 1449/PTO				<b>Complete if Known</b>	
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				Examiner Name	
Sheet	3	of	3	Attorney Docket Number	ISR-172

<b>NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	A1	BASH et al, Inkjet Assisted Spray Cooling of Electronics, ASME IPACK03 - International Electronics Packaging Technical Conference and Exhibition, July 6-11,2003, Maui, Hawaii			
	A2	Tilton, Spray Cooling, Doctorial Dissertation - University of Kentucky, Lexington, Kentucky, 1989			

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.  
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2-16-05

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PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL  
FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

7

Application Number	10/786,452
Filing Date	02-24-2004
First Named Inventor	Tilton
Art Unit	2835
Examiner Name	

Attorney Docket Number

ISR-172

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Paul A. Knight
Signature	
Date	02/08/2005

## CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the USPTO, 1450, Alexandria, VA 22313-1450 on the date shown below.

EXPRESS MAIL

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Typed or printed name	Paul A. Knight
Signature	
Date	02/08/2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Serial No.: **10/10/786,452** )  
Filed: **02/24/2004** )  
Inventor: **Tilton et al.** )  
Group Art Unit: **2835** )  
Agent / Attorney: **Paul A. Knight** )

To: **Commissioner of Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

Sir:

Please find included Form PTO/SB/08A listing documents for the Examiner to consider during examination of the above-stated patent application.

Respectfully submitted,

Paul A. Knight

02/08/2005

Paul A. Knight  
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2218 North Molter Road  
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Date

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